

Challenger

Range of Load Cells



Features

- 20kg to 200kg capacities.
- For low capacity weighing of Hoppers, Tanks and Vessels.
- Robust design for harsh industrial applications.
- Inbuilt strength 150% maximum overload.
- Stainless steel construction, with sealing up to IP65.
- Designed and manufactured in the UK with a 5 year warranty.

Options

- ATEX for Zone 1 and 2 hazardous areas.
- Range of stainless steel weighing assemblies.
- Digital with RS485 ASCII, Modbus, CAN and CANopen outputs.
- High temperature version up to 160°C.
- Range of industrial instrumentation and weight controllers.

Description

The Challenger range of load cells are designed for accurate weighing applications. Uses include hoppers, tanks and vessels. The load cell is supplied in stainless steel, with option for use in ATEX Hazardous Areas.

ENGINEERING SPECIFICATIONS

CHALLENGER LOAD CELL

Specifications

Full Scale Output: 2.00mV/V Nominal For ATEX Category 1 - (II 1G Ex ia IIC T6 Ga $(-35^{\circ}C \le Ta \le +60^{\circ}C)$ Creep (in 20 minutes) 0.02% maximum

Non-Linearity: 0.03% maximum For ordering suffix the part number with 'X' i.e. Hysterisis: 0.05% maximum AW430/0010X (see certificate BAS99ATEX2067) 0.02% maximum Non-Repeatability:

Compensated temperature range: Safe Overload: 150% -10°C ...+40°C Insulation Resistance: 2000 $M\Omega$

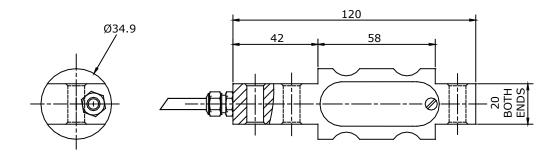
Operating temperature range: Zero Balance: ± 1% F. S.

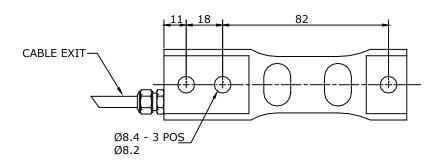
-40°C ...+80°C (-35°C...60°C for ATEX) Supply Voltage: 5-12 V (DC or AC)

Load cell material: Stainless steel 17-4 PH Max Voltage: 15V up to IP65 Protection: Output Resistance: $350\pm5\Omega$

PART NUMBERS 20kg - 250kg

Capacity	Stainless Steel Part Number	Capacity	Stainless Steel Part Number
20kg	AW430/00020	150kg	AW430/00150
30kg	AW430/00030	200kg	AW430/00200
50kg	AW430/00050		
100kg	AW430/00100	Dummy Loadcell	AW430/00000





Colour Code:

Positive Excitation - RED Negative Excitation - BLUE Positive Signal - GREEN Negative Signal - YELLOW

Cable: 6 metres 4 (6) core screened

All dimensions in mm Refer to installation documents before use

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